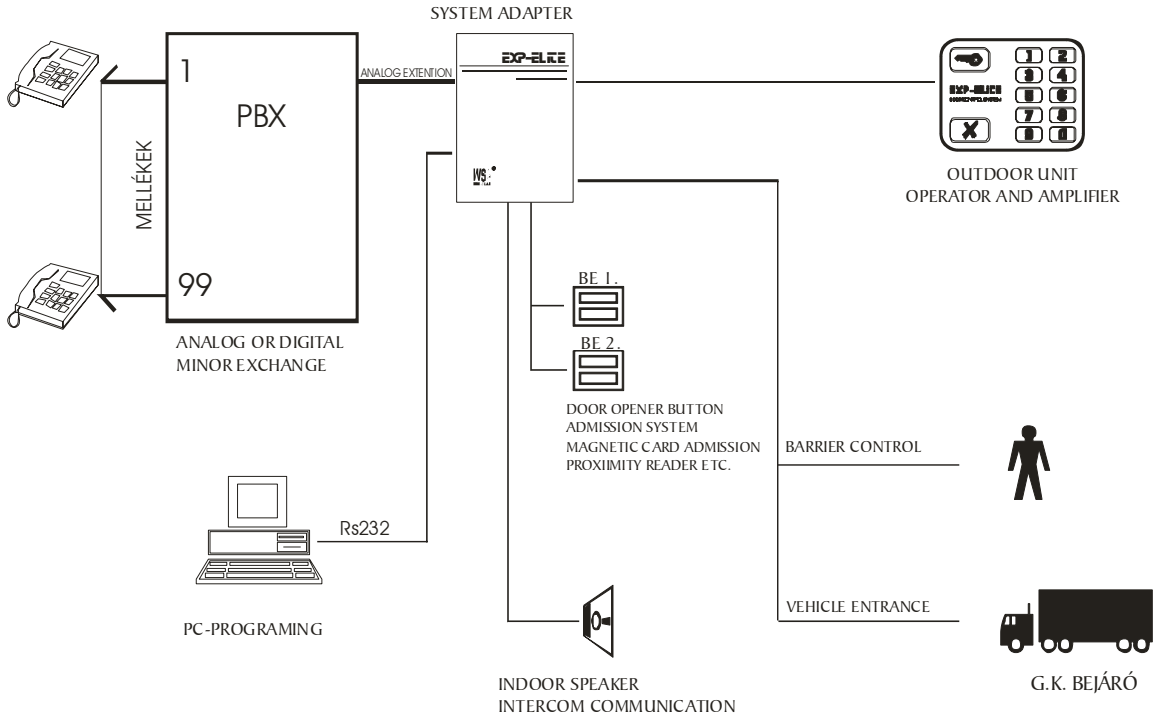
WS Exp-elite keyboard entryphone system
Installation and user information

Dear Installer Colleague! This manual is intended for you, therefore we are asking you to read it before installing. We will gladly answer any question you may have and gladly receive any observations or suggestions you would like to make. Thank you for choosing our product! The manufacturer, developer: SOUL-DREAM Ltd. Hungary

EXP-ELITE COMPLEX ENTRYPHONE CONTROL SYSTEM DRAFT



APPLICATION 1.

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1. Introduction

Dear User
The entryphone system chosen by You has been designed according to the demands of the present day. Today's microprocessor control makes a wide variety of services and their flexible programming possible. The Exp-Elite entryphone system is the result of many years' development experience. The two main constituting elements of the system are:

1. the outdoor unit
2. the adapter unit

The **outdoor unit** is the equipment installed at the entrance gate or door. It provides the possibility to choose the apartment or to enter using a PIN code.
The **adapter unit** is the adapter that can be installed indoors (or in water- and vapour-proof box), which matches the outdoor unit to the analogue extention of the minor exchange, stores the programmed operation parameters and directs the operation. Furthermore, a door magnet controller, a barrier controller, a Proximity or magnetic card admitter as well as an intercom loudspeaker can be connected to the adapter unit. The connection of the above equipments has been configured but these devices do not belong to the basic set.
To configure the operation (to program it when put into operation) a Laptop or a Desktop PC is needed through the V.24 (RS-232) interface. Programming and the programming documentation can be effected with the help of the Exp-Elite communication software.
The programmed parameters in the adapter unit are stored in EEPROM, therefore the parameters will be saved in case of a power outage!

2.2 Functions accessible for the user

Survey
The outdoor unit of the entryphone is connected to the local minor exchange (through the adapter unit). A call from the outdoor unit (pressing the apartment number) will make the apartment telephone ring for a time set by the programmer. By picking up the handset of the apartment telephone, you can get into contact with the entryphone immediately or as the effect of the " code to switch on the speech condition" (also as set by the programmer). The opening of the door can be effected by entering the door opener code.

Reception of entryphone call
The caller has selected the apartment he/she desires to call by entering the apartment number. The apartment telephone rings. Picking up the handset, you can hear the entryphone tone or the holding music switched on by the entryphone (according to setting) or you can immediately get into contact with the outdoor unit. In case of holding music or tone, you can activate the speech contact with the "speech condition code".

Initiating a call to the entryphone unit
You have a possibility to call the entryphone unit (e.g. when from the window you can see somebody waiting in front of the entrance door). Picking up the handset of the apartment phone, you will hear the dial tone of the minor exchange and now you can dial the call number of the entryphone extention then enter the code to switch on the speech condition. Entering the code makes it possible for the voice communication to build up.

Releasing the speech condition
There is a possibility to release the speech condition from the apartment phone by entering the release code on the apparatus and then putting down the handset of the apartment telephone.

Door opening
You have the possibility to control the door opener from the home telephone. In speech condition enter the door opening code (two-digit code). By entering the first digit, the speech condition is suspended (to avoid undue entering), and then the door opens after pressing the second key. You can turn back to speech condition from the suspension of the speech condition with the code to switch on the speech condition. Before the full release ***(5 seconds before) the entryphone unit gives a notice sound.***

Intercom link
You are calling the entryphone unit from a home telephone and then by pressing the intercom key, you can activate the one-way voice communication. (The intercom communication is only available if you have installed an intercom loudspeaker to the adapter unit and if you have authorised the service by programming.)
Releasing the intercom connection is done according to the ”releasing the speech condition” paragraph.

Admission with the help of the outdoor unit keyboard
Press the ”key” symbol button on the outdoor unit, then enter the 5-digit admission code. With the correct code the door opener is activated.
IMPORTANT!!
You must begin entering the PIN code in 3 seconds after pressing the ”key” button, otherwise the system will not allow the door to open from reasons of safety, instead it will ring the apartment number corresponding to the first two digits!!
(note: It is possible to adapt a PROXIMITY admission card accessory to the Exp-Elite entryphone system. The card-based admission means higher safety with the admission!!)

2.3 Summary of functions accessible for the user

Programming the functions accessible for the user is done by an expert installer, therefore ask the installer for the codes.

Function accessible for the user			Code
Switching on speech condition and extension of voice communication			
First door opening (possibly barrier or admission turnstile)			
Second door opening (possibly barrier or admission turnstile)			
Release of speech condition			
Intercom link			
	Gate 1 control	Gate 2 control	
Admission (PIN) cod 1			
Admission (PIN) cod 2			
Admission (PIN) cod 3			
Admission (PIN) cod 4			
Admission (PIN) cod 5			
Admission (PIN) cod 6			
Admission (PIN) cod 7			
Admission (PIN) cod 8			
Admission (PIN) cod 9			
Admission (PIN) cod 10			

3.1 Choosing the location of the installation

The following points are to be considered when installing the outdoor unit:
The equipment should be out of reach for heavy rain and the microphone for dominant winds! The outdoor unit should be stably fixed on a vibration-free wall surface. With a sunk execution you should make sure the wall notch is not damp, mouldy or full of debris. Rain should not leak in at the cable attachment!

The indoor adapter unit can be installed on a fixed wall surface or into a tight, moisture- and rain-proof, plastic, electric equipment box. The adapter unit should not be further than 50m from the outdoor unit if possible. In case of a larger distance, the use of 075 Cu cable is necessary.

3.2 Cabling configuration

The **outdoor unit** and the adapter unit are connected by three wires, through which the communication and the power supply is realised). In case this wire runs through an environment full of interference, it is advisable to use a shielded wire for it in any case. The shielding hose is only allowed to be connected at the adapter and to the negative (-) point. You should leave the shielding hose at the outdoor unit free to avoid a ground loop!
The **adapter unit** connects to the minor exchange at the ”line” (a,b) points to the branch line circuits. Follow the instructions of the minor exchange when determining the distance between the adapter unit and the minor exchange!

The **door opener** (barrier control, rotating fork etc.) control should always be realised with a separate wire! There is no possibility to join wires!

3.3 Appliances connected to the adapter unit

The following (optional) units can be connected to the adapter unit:
With **two gate controller** units two magnetic locks or barriers and turnstiles can be controlled. At the first controller output terminal, we can determine by programming that it would ensure closing contact or 12VAC (not stabilised) voltage. The second controller terminal only provides closing contact! The loadability of the built-in relay contacts is maximum 0.5A and the 12VAC loadability also is limited to a 0.5A amperage.

With connecting an **Intercom** loudspeaker we’ll have a one-way voice communication possibility with workshops, factory area and the reception. The amplifier of the intercom can deliver a 1W audio-frequency power output and the matching loudspeaker impedance can be 4-160Ohm.

Numerous devices like PROXIMITY or magnetic card **admitter** can be connected to the two controller input terminals.
The first input terminal can be activated by closing contact while the second is a power detector input terminal becoming active as the effect of current flowing through the it. Each input terminal can be rendered to the appropriate output terminal (by programming).

4.1 Entering the programming mode

After cabling the equipment, the operation characteristics must be set by programming. Programming is done with the help of the Exp-Elite support program through the V.24(RS232) interface.
Connect the PC with a D9 RS-232 cable to the adapter unit. To enter programming mode, turn the sliding switch on the side of the equipment to ON position. The LED located next to the switch lights up.
Start the Exp-Elite program on your PC and click the CONNECT button. The software version of the adapter unit will appear on the screen and the issue date (year and month) as well as the communication protocol version number. The equipment is now ready to be programmed.
If you get an error message, you should check the coupling of the serial cable, the serial cable and the position of the service switch!

4.2 Programming the Exp-elite adapter

The adpter unit can be programmed as three units logically. The programming parameters can be set on different sheets.
First sheet
You can set the extention (apartment call numbers) and the spacing interval before the dialling on the first sheet. Always take the particularities of the minor exchange into consideration when setting the spacing interval (usually 2sec is recommended).

Second sheet
The parameters of the outdoor unit can be set on the second sheet:
Voice communication code (one digit)
Release code (one digit)
Intercom link code (one digit)
Contact timing (delay)
Ringing time
Speech condition timing
Admitter PIN codes
Information sound signals

Third sheet
The door opener control, the input and output terminal matching can be determined on the third sheet.

4.3 Programming documentation

It is a very important step at the end of the installation to document the installation.
You can make comments on the fourth sheet (the characteristics of the installation, hardware development, possible special user demands). The notes also will be saved when the configuration is saved and this can be very useful in the following.

There is a possibility furthermore to print the set parameters. This is especially useful when delivering the system to help avoid future arguments.

Dear Installer Colleague!
We are further asking You to deliver the user codes programmed by You to the users and to instruct the users! We can avoid a lot of misunderstandings and they will be satisfied with Your work in this way!

5.1 Operation characteristics

The Exp-Elite entryphone adapter is a microcontroller controlled (TPV) telecommunication accessory equipment.
The programmed parameters in the adapter unit are stored in EEPROM, therefore the parameters will be saved in case of a power outage!

5.2 Electrical parameters

Supply voltage necessity 220/230V 50/60Hz
Maximum rate of power consumption: 25VA
Minor exchange extention terminating impendance: 600Ohm

5.3 Joining attachments

Adapter unit

LINE	-telephone minor exchange analogous branch circuit connector (a, b branch)
IN1	-closing contact detector input terminal (e.g. admitter unit or pressbutton)
IN2	-current detector input terminal (admitter unit)
OUT1	-first opening controller output terminal (can be closing contact or 12VAC depending on programming)
OUT2	-second opening controller output terminal (only closing contact)

-	-outdoor unit negative connection point
~	-outdoor unit audio-frequency connection point
+	-outdoor unit positive connection point

Outdoor unit

triple terminal

-	-outdoor unit negative connection point
~	-outdoor unit audio-frequency connection point
+	-outdoor unit positive connection point

5.4 Environmental characteristics

Indoor unit
Operation temperature range 0-60ºC
Relative vapour content 0-80%

Outdoor unit
Operation temperature range -15-60ºC
Relative vapour content 0-90%